

*Assay file*

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY <sup>11</sup>

Core samples of Skyline Oil Company's Skyline-Hydrocarbon No. 2 corehole drilled 1651.4 feet S. of N. line and 2213.2 feet E. of W. line, sec. 13, T. 5 S., R. 100 W., Garfield County, Colorado

Surface elevation 8,364.4 feet

From	To	Description
0	75	Not cored.
75	81.4	Marlstone, tan and brown, poorly defined to well defined bedding. Common bands of light gray siltstone.
81.4	90.0	Siltstone, light gray to dirty white, massive. Common bands, stringers, and irregular fragments of tan marlstone with contorted bedding.
90.0	96.5	Oil shale, lean, light brown and dark brown, well defined bedding.
96.5	110.0	Marlstone, light gray and tan, massive to well defined bedding, silty. Common massive light gray siltstone.
110.0	120.0	Marlstone and siltstone as above. This interval represented only by a few broken fragments.
120.0	123.2	Marlstone, tan and brown, poorly defined to well defined bedding. A 0.2-foot band of gray siltstone occurs at 122.6 feet.
123.2	124.8	Siltstone, light gray, massive, sandy in part.
124.8	151.6	Siltstone, light gray, massive. Common carbonaceous material. Interbedded with tan marlstone with well defined bedding.
151.6	164.8	Marlstone, tan and light brown, well defined bedding. A 1.3-foot band of light gray, massive siltstone occurs at 155.8 feet.
164.8	167.3	Siltstone, light gray, massive. Common carbonaceous material.
167.3	175.9	Marlstone, tan and light brown, well defined bedding. Rare 0.1-foot bands of gray siltstone. A 0.4-foot band of dark brown oil shale occurs at 172.0 feet.
175.9	191.7	Siltstone, light gray to dirty white, massive. Contains fragments of brown bedded marlstone.
191.7	194.3	Marlstone, brown, well defined bedding.
194.3	197.8	Siltstone, dirty white, massive, carbonaceous.
197.8	204.2	Marlstone, tan and brown, well defined bedding.
204.2	210.6	Oil shale, lean, brown and dark gray, massive. Rare crystal cavities.
210.6	214.4	Marlstone, tan and brown, massive to poorly defined bedding.
214.4	217.8	Oil shale, lean, brown, massive to well defined bedding. Rare crystal cavities.
217.8	222.0	Marlstone, light gray and tan, poorly defined to well defined bedding.

Samples received January 15, 1960.

*11 B, B.L. Short*

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(Con.)

From	To	Description
222.0	225.3	Oil shale, lean, tan and brown, poorly defined to well defined bedding.
225.3	281.3	Oil shale, lean to medium, light brown and dark brown, massive to well defined bedding. Rare one-half-inch light gray tuff bands.
281.3	286.5	Oil shale, medium, dark brown, well defined bedding. Rare tuff stringers.
286.5	290.5	Oil shale, lean, brown to gray. Rare one-half-inch gray tuff stringers. Poorly defined bedding.
290.5	291.5	Oil shale, medium, brown, well defined bedding. Rare pyrite.
291.5	295.0	Oil shale, lean to medium, gray. Rare tuff stringers.
295.0	296.0	Oil shale, medium, dark brown, massive to poorly defined bedding.
296.0	306.0	Oil shale, lean, tan to gray, well defined bedding. Rare tuff streaks.
306.0	307.0	Oil shale, medium, dark brown, poorly defined bedding. Rare tuff streaks.
307.0	325.0	Oil shale, lean, tan to gray, well defined bedding; 0.5-foot rich oil-shale beds at 313.5 and 320.0 feet. Rare pyrite.
325.0	326.0	Oil shale, medium, dark brown, poorly defined bedding.
326.0	340.0	Oil shale, lean, gray, well defined bedding. Three-inch gray tuff bed at 333.7 feet. One-inch gray tuff beds at 335.0 feet and 339.0 feet. One-foot medium oil shale at 337.0 feet.
340.0	342.0	Marlstone, tan to gray, poorly defined bedding.
342.0	352.0	Oil shale, lean to medium, dark brown, poorly defined bedding. Tuffaceous zone at 345.0 feet. Two-inch tan tuff at 347.2 feet. Four-inch tan tuff at 349.5 feet. Two-inch dark gray tuff at 350.2 feet. One-half-inch oil saturated tuff at bottom.
352.0	360	Oil shale, lean to medium, brown, poorly defined bedding; 0.6-foot wavy tuffaceous zone at 353.6 feet. Rare oil saturated tuff stringers.
360	376.3	Oil shale, lean, tan to brown, poor to well defined bedding. Two-inch tan tuff at 361.0 and 362.0 feet. One-inch tan tuffs at 365.1, 365.4, and 368.5 feet.
376.3	377.9	Tuff, light gray, massive to contorted bedding.
Upper wavy bed		Rare stringers of oil shale.

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From	To	Description
377.9	380.0	Oil shale, lean, light brown, well defined bedding.
380.0	388.0	Oil shale, lean to medium, dark brown, poor to well defined bedding.
388.0	391.5	Oil shale, lean, gray to brown, well defined bedding.
391.5	403.0	Oil shale, lean, gray to brown, well defined bedding, good banding in lower part. Rare bands of medium oil shale; 0.5-foot tuffaceous oil shale at 401.5 feet.
403.0	411.8	Marlstone, tan to gray, well defined bedding. Rare bands of medium oil shale.
Bottom A-groove 411.8 feet		
411.8	414.0	Oil shale, lean, light brown, poorly defined bedding.
414.0	418.0	Oil shale, lean to medium, brown, well defined bedding. Common thin tuff bands.
418.0	422.0	Oil shale, medium, brown, well defined bedding. Two-inch tan tuff at 418.5 feet. Three-inch light tan tuff at 419.0 feet.
422.0	428.5	Oil shale, lean to medium, brown, poorly defined bedding. Rare thin tuff bands.
428.5	429.0	Tuff, tan to brown, massive. Rare pyrite.
Mahogany marker		
429.0	432.4	Oil shale, lean, tan to brown, well defined bedding, excellent banding.
432.4	434.0	Oil shale, medium, dark brown, poorly defined bedding.
434.0	435.9	Oil shale, lean, tan, well defined bedding.
435.9	438.2	Oil shale, medium to rich, dark brown, poorly defined bedding.
438.2	441.2	Oil shale, medium, brown, platy with vertical fractures.
441.2	447.0	Oil shale, medium, dark brown, poorly defined bedding. One-foot platy shale at 442.6 feet. Rare tuff stringers.
447.0	449.0	Oil shale, medium to rich, dark brown, massive. Rare tuff stringers.
449.0	457.0	Oil shale, lean, tan to brown, well defined bedding, good banding. Rare zones medium oil shale; 0.8-foot rich oil shale at 453.0 feet.
457.0	460.0	Oil shale, medium, dark brown, poorly defined bedding.
460.0	470.5	Oil shale, lean to medium, brown to tan, well defined bedding. Good banding. Rare tuff stringers.

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From	To	Description
470.5	472.3	Tuff, tan to light gray, massive. Smooth contacts.
Lower wavy bed		
472.3	475.5	Marlstone, tan to light brown, poor to well defined bedding. Rare lean oil shale.
475.5	481.0	Oil shale, lean to medium, brown to dark brown, poor to well defined bedding. Poor banding. Rare tuff stringers. Tuffaceous zones at 476.0 and 479.5 feet. One-inch gray tuff bed at bottom.
481.0	486.0	Oil shale, lean, tan to light brown, well defined bedding, good banding. Rare tuff stringers.
486.0	504.0	Marlstone, tan to light gray, massive to poorly defined bedding. Two-inch gray tuff at 489.0 feet. Rare tuff stringers. Rare pyrite.
504.0	505.0	Oil shale, lean, tan, poorly defined bedding.
505.0	506.1	Oil shale, medium, dark gray, poorly defined bedding. Common tan tuff stringers.
506.1	508.3	Marlstone, tan to light brown, well defined bedding, poor banding.
508.3	510.0	Oil shale, lean, tan to brown, well defined bedding. Rare tuff stringers. One-inch gray tuff at 509.9 feet.
510.0	519.2	Marlstone, tan to light brown, well defined bedding. One-inch gray tuff at 510.3 feet. Two-inch gray tuff at 511.6 feet. Three-inch dark gray tuff at 513.7 feet. Common gray tuff streaks.
519.2	522.0	Oil shale, lean, brown to light gray, well defined bedding, good banding.
522.0	530.0	Marlstone, tan to brown, well defined bedding, good banding. 525 - 528 missing.
530.0	534.0	Oil shale, lean, tan to brown, well defined bedding, excellent banding. Rare bands of rich oil shale and gray tuff.
534.0	537.0	Marlstone, tan to light gray, massive to poorly defined bedding.
537.0	539.4	Oil shale, medium, brown, tuffaceous, poorly defined bedding.
539.4	546.0	Marlstone, tan to light gray, poorly defined bedding. Two-inch tan contorted tuff at 541.9 feet. Six-inch banded tuffaceous zone below above tuff.
546.0	550.8	Oil shale, lean to medium, brown to gray, well defined bedding. Common tan and gray tuff stringers.
550.8	552.0	Oil shale, lean to medium, brown, well defined bedding. Common tuff stringers.

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From	To	Description
552.0	560.0	Marlstone, tan to light gray, well defined bedding. One-inch gray tuff bed at 559.0 feet.
560.0	561.0	Marlstone, tan to brown and gray, well defined bedding.
561.0	568.0	Siltstone, tan to gray and brown, tuffaceous, massive.
568.0		Bottom of core.

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Laramie Petroleum Research Center, Laramie, Wyoming      October 12, 1960